



HIV/AIDS in the Eastern Region: An Epidemiological Profile

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IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards
- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.



National Data



U.S. HIV/AIDS Prevalence



- At the end of 2009, an estimated 1.2 million Americans were infected with HIV
- It is also estimated that 20% of the infected were undiagnosed
 - CDC. HIV in the United States. Fact Sheet, Nov. 2011. Atlanta.



2010 Estimated HIV Diagnoses, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia*	939	156.7
2. Virgin Islands	47	42.8
3. Florida	5,782	31.2
4. Maryland*	1,708	30.0
5. Louisiana	1,279	28.5
6. Puerto Rico	1,118	28.2
7. New York	5,321	27.2
8. Georgia	2,581	26.3
9. New Jersey	2,207	25.3
10. South Carolina	914	20.0
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<i>United States**</i>	48,298	16.3

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 19.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

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2009 Estimated Adults Living with HIV, Ranked by Rates



<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia*	13,973	2,330.2
2. New York	130,608	795.9
3. Virgin Islands	573	632.7
4. Florida	92,874	594.8
5. Puerto Rico	18,350	555.7
6. Maryland*	29,282	513.8
7. New Jersey	36,041	497.1
8. Georgia	35,129	442.6
9. Louisiana	16,211	440.4
10. Delaware	2,913	395.8
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<i>United States**</i>	<i>800,784</i>	<i>327.6</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 21.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

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State Data

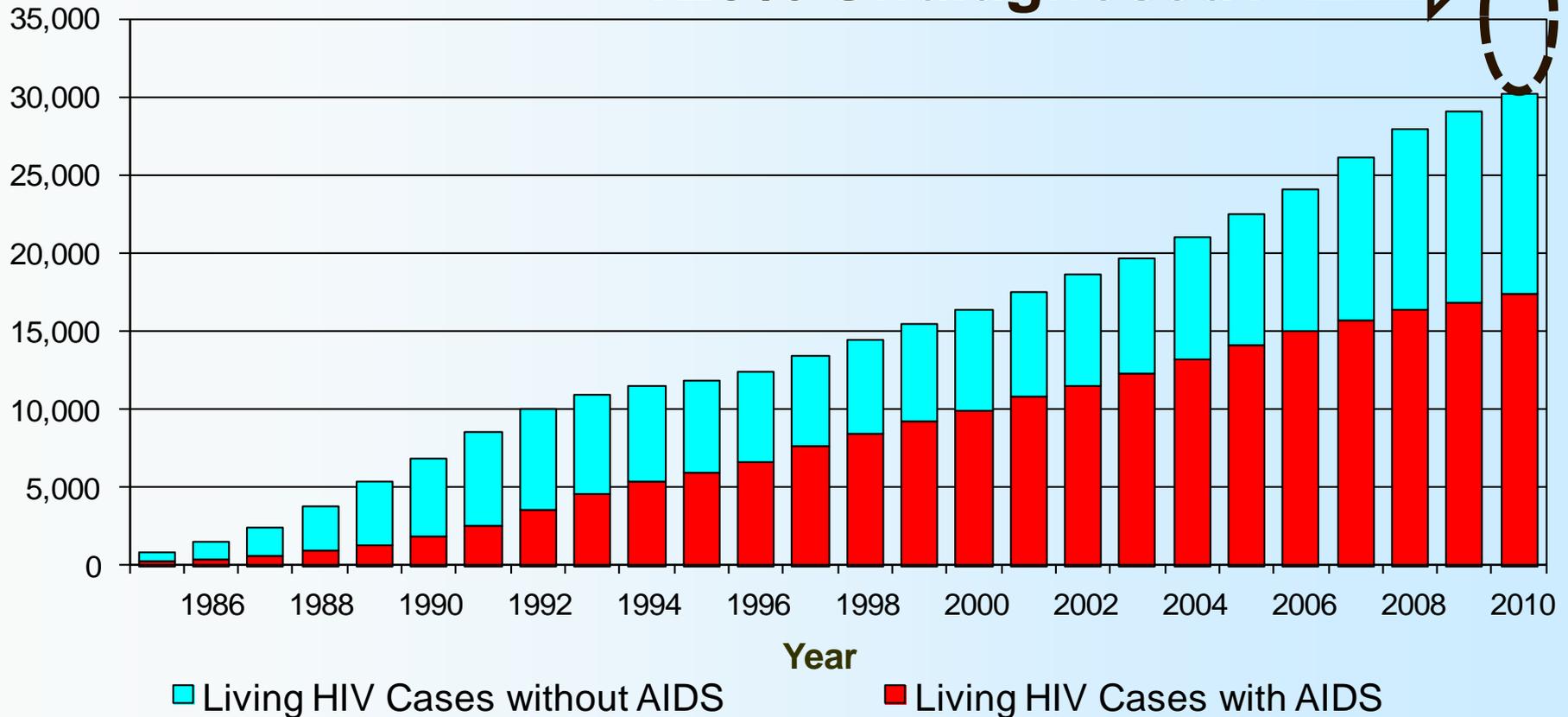


Maryland Living HIV Cases



Number of Cases

+20% Undiagnosed? →



Using data as reported through 12/31/2011

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Maryland Adult/Adolescent HIV/AIDS Statistics



Reported Diagnoses (during 2010)	No.	per 100,000	
HIV	1,430	29.7	
AIDS	909	18.9	
Living Cases (on 12/31/10)	No.	per 100,000	1 in X
HIV without AIDS	12,465	258.8	
HIV with AIDS	17,177	356.6	
Total HIV	29,642	615.5	162

Using data as reported through 12/31/2011

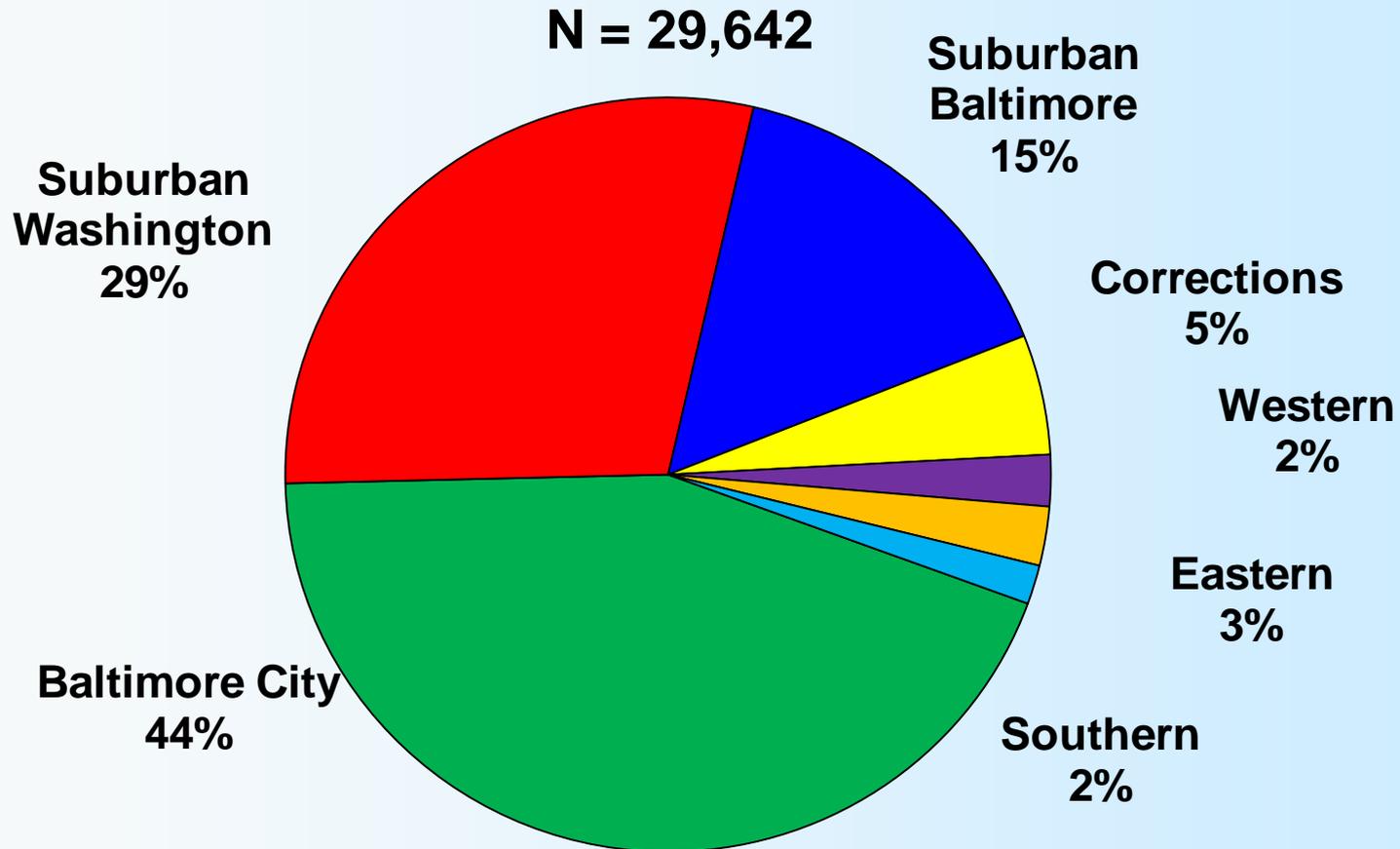


Maryland Regional Advisory Committee Regions





Maryland Living Adult/Adolescent HIV Cases by Region, 12/31/10



Using data as reported through 12/31/2011



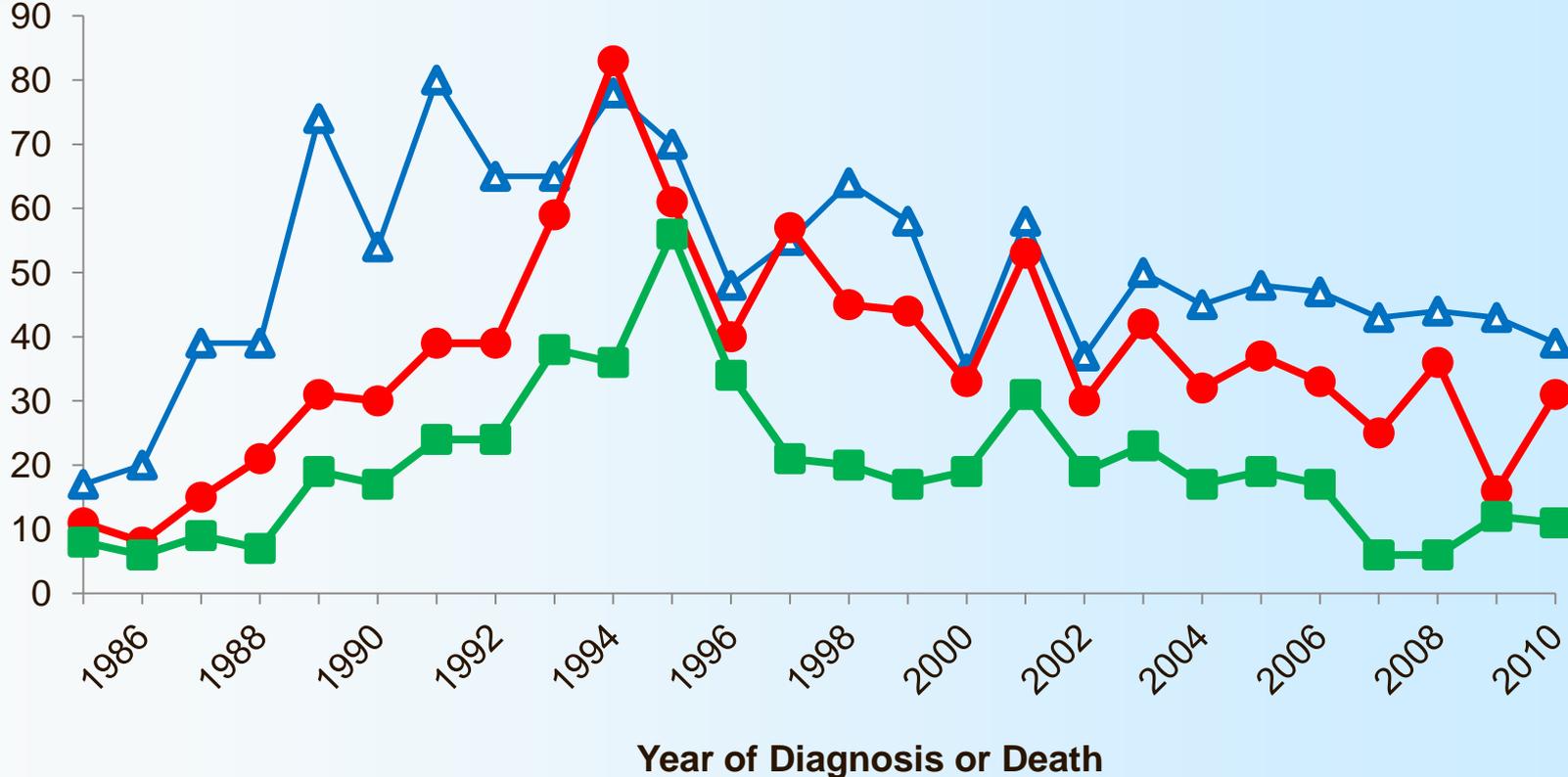
Regional Data



HIV/AIDS Trends Eastern Region



Number of Events



▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

Using data as reported through 12/31/2011

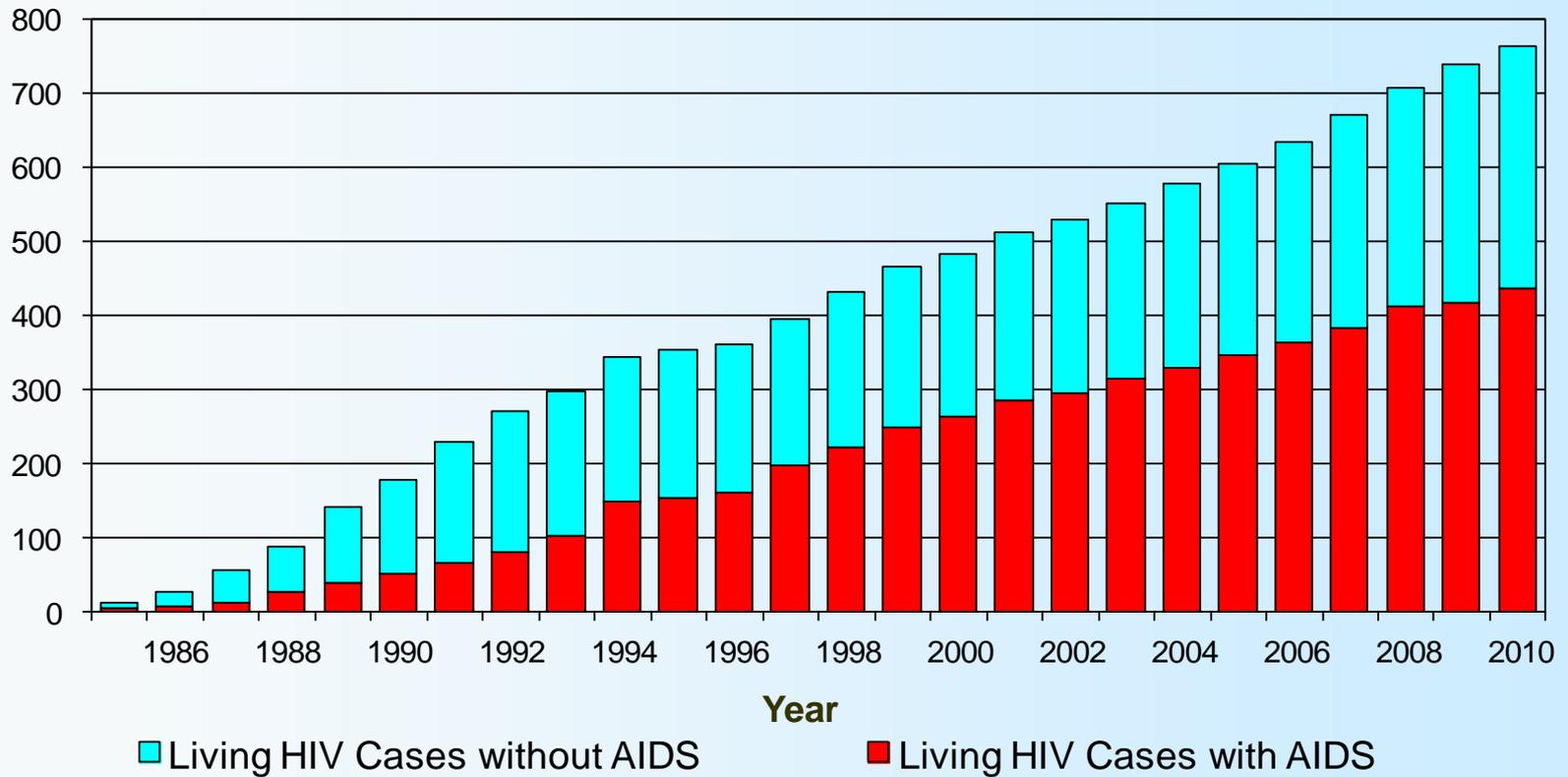
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Living HIV Cases Eastern Region



Number of Cases



Using data as reported through 12/31/2011

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HIV Statistics Adult/Adolescent Cases, Eastern Region

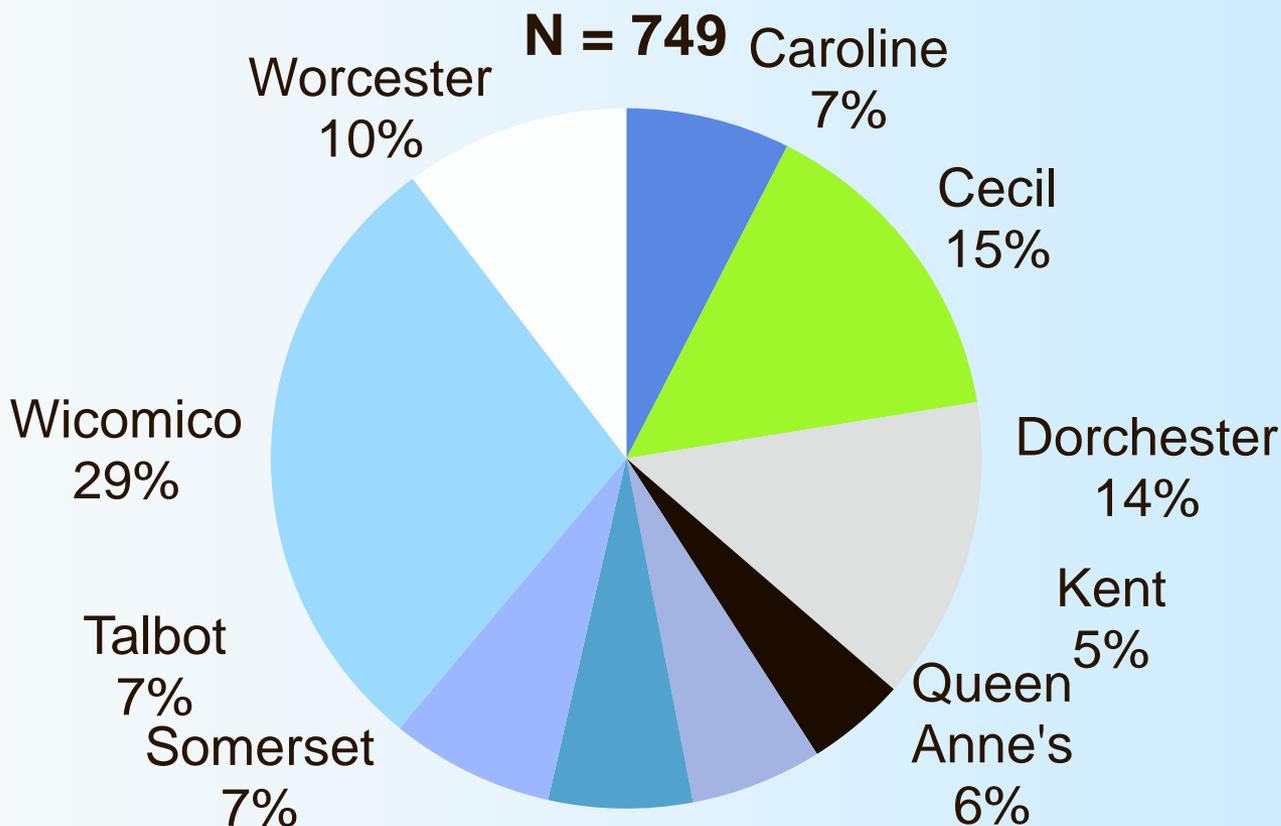


	Reported HIV Diagnoses during 2010	Living HIV Cases on 12/31/2010
Eastern Region	38	749
Caroline	3	56
Cecil	5	112
Dorchester	10	105
Kent	1	34
Queen Anne's	2	45
Somerset	4	49
Talbot	5	56
Wicomico	5	215
Worcester	3	77

Using data as reported through 12/31/2011



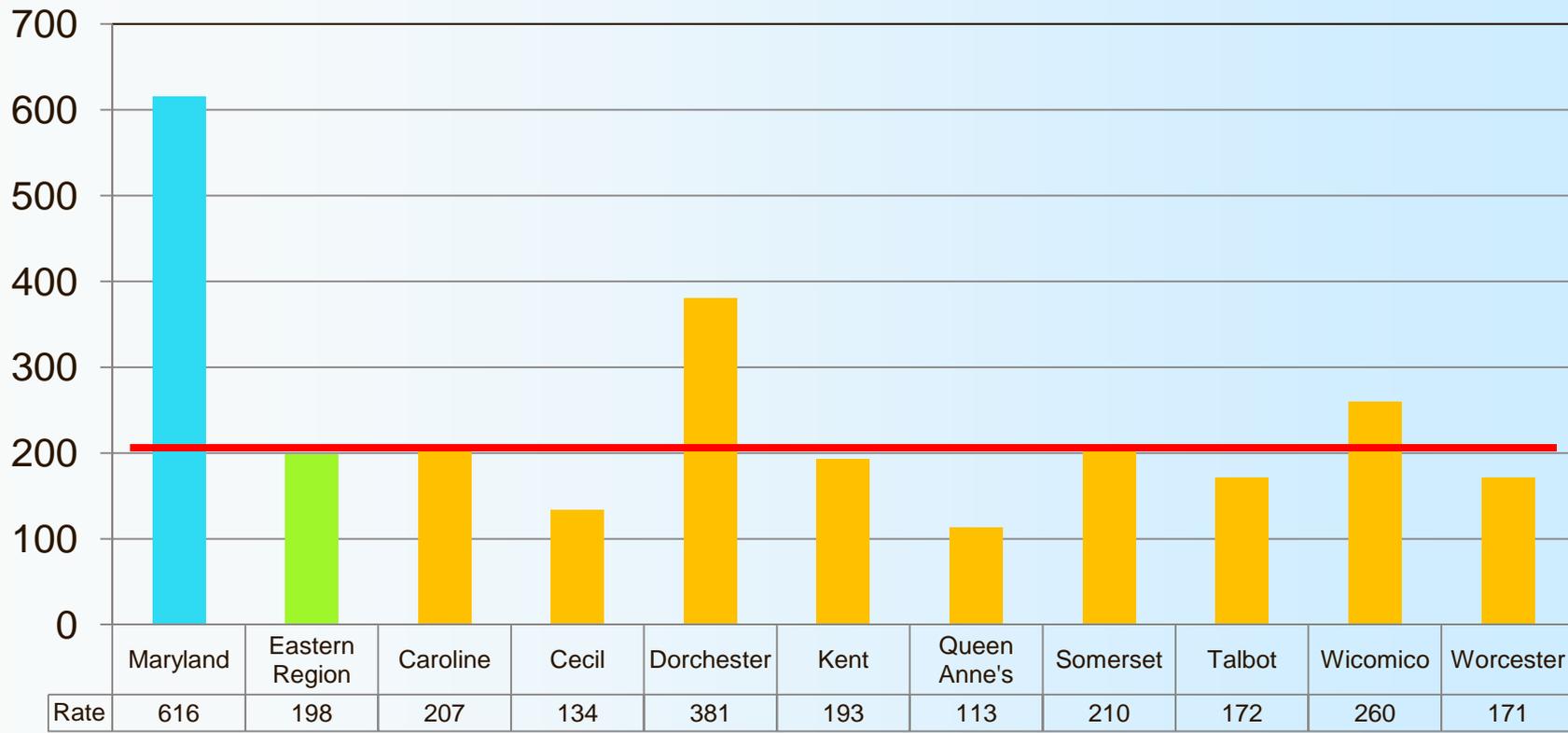
Eastern Region Living Adult/Adolescent HIV Cases by County, 12/31/10



Using data as reported through 12/31/2011



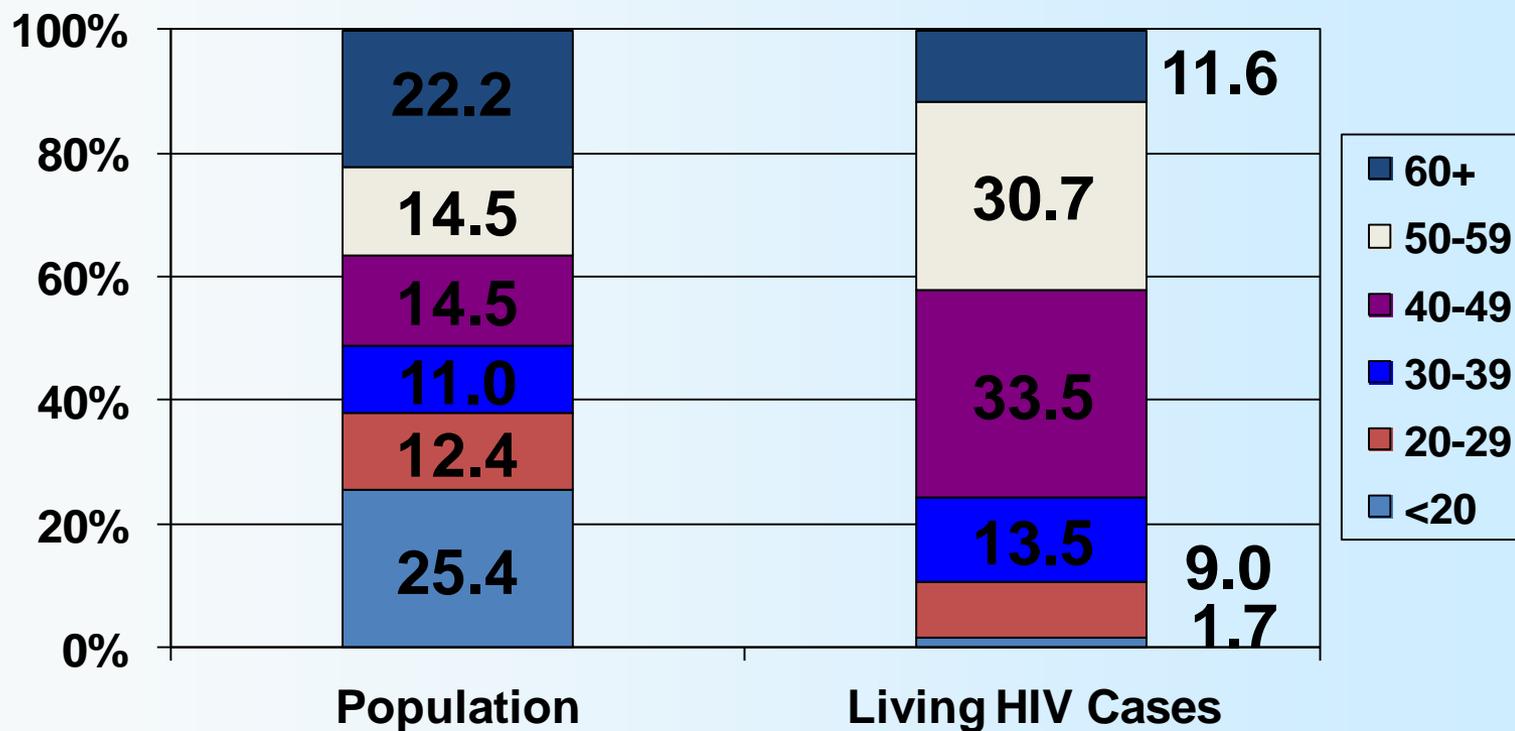
Living Adult/Adolescent HIV Cases Rates per 100,000 Population by County, Eastern Region, 12/31/10



Population on 4/1/10. Cases on 12/31/10 as reported through 12/31/11



Population and Living HIV Cases by Age, Eastern Region



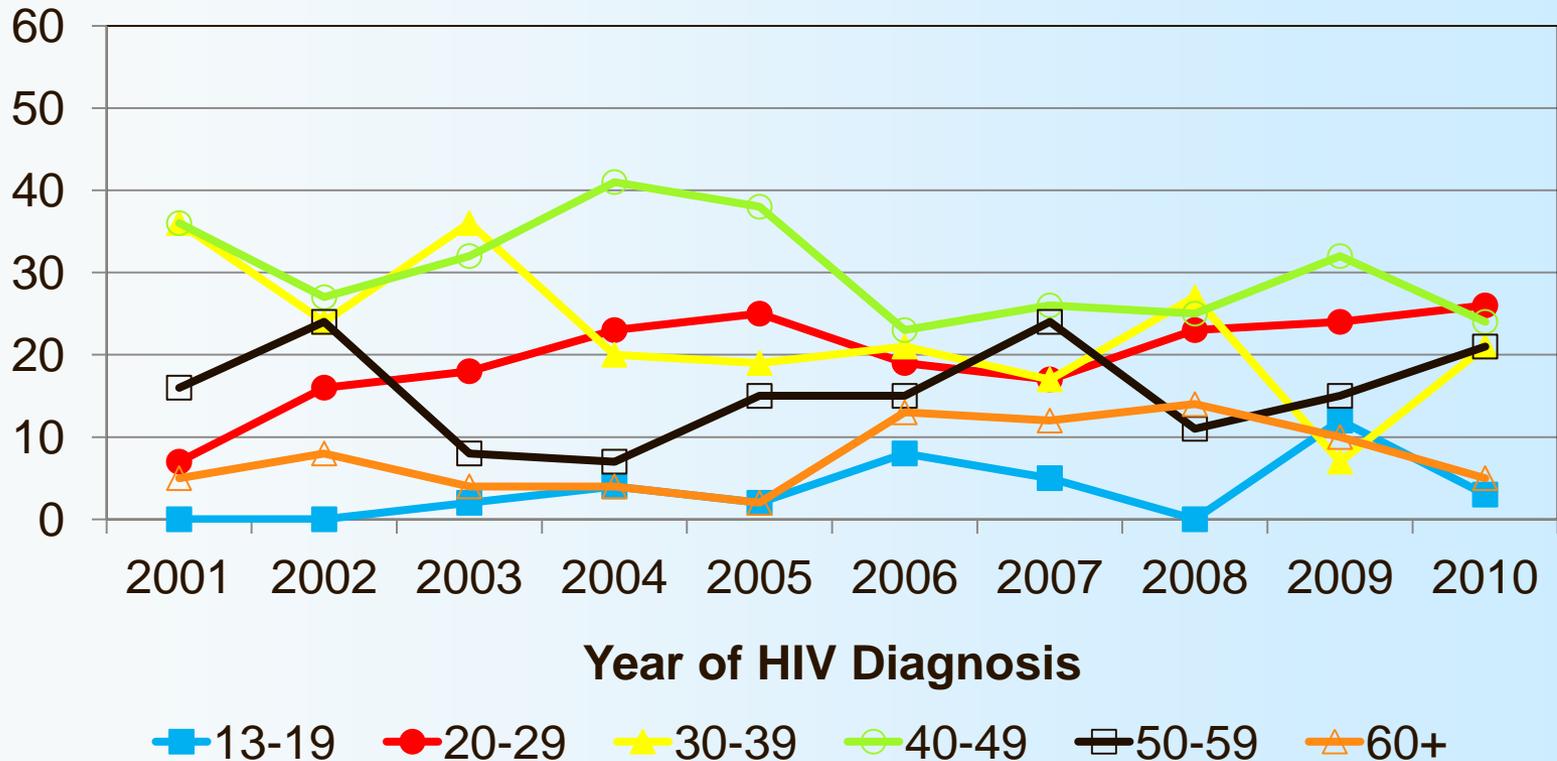
Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis, Eastern Region



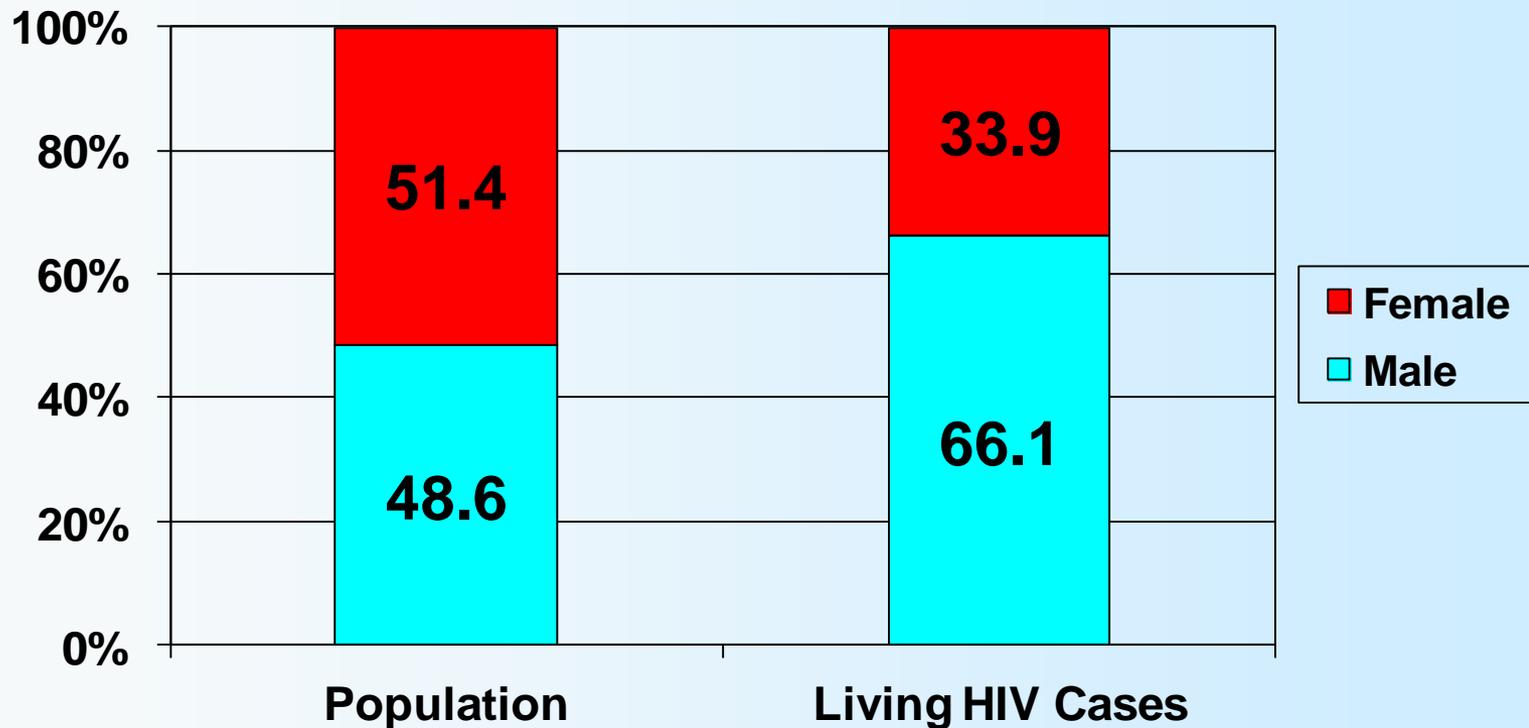
Percent



Using data as reported through 12/31/2011



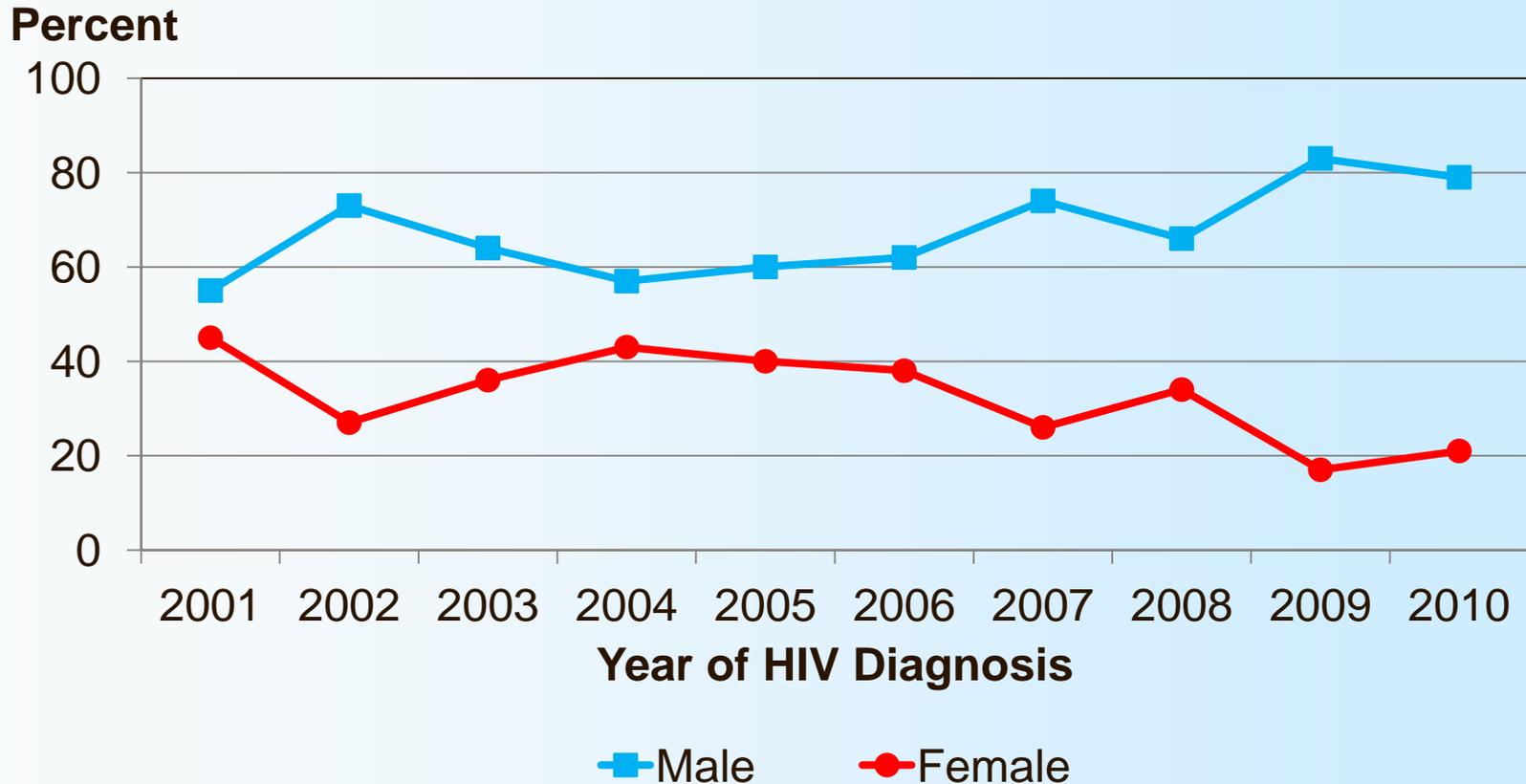
Adult/Adolescent Population and Living HIV Cases by Sex at Birth Eastern Region



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



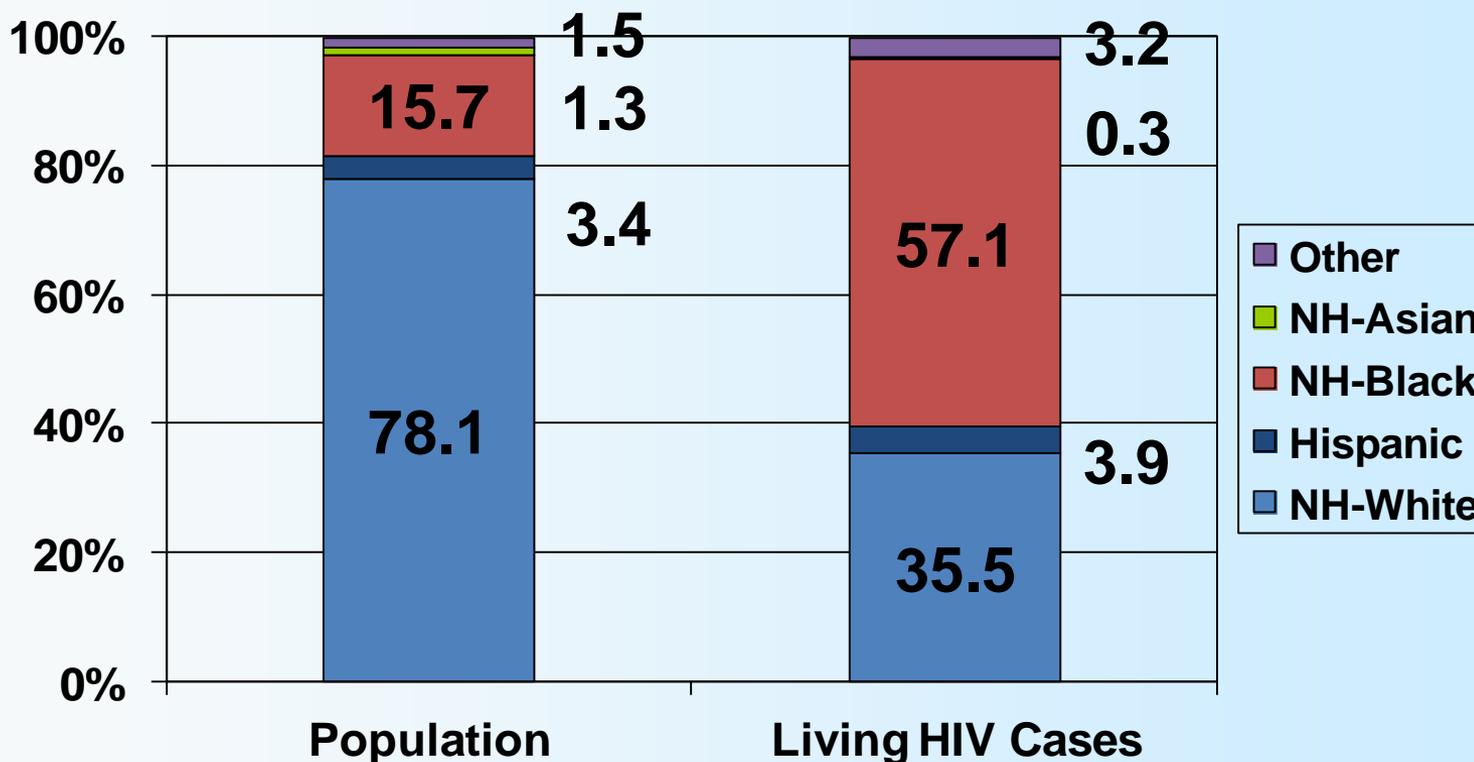
Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth, Eastern Region



Using data as reported through 12/31/2011



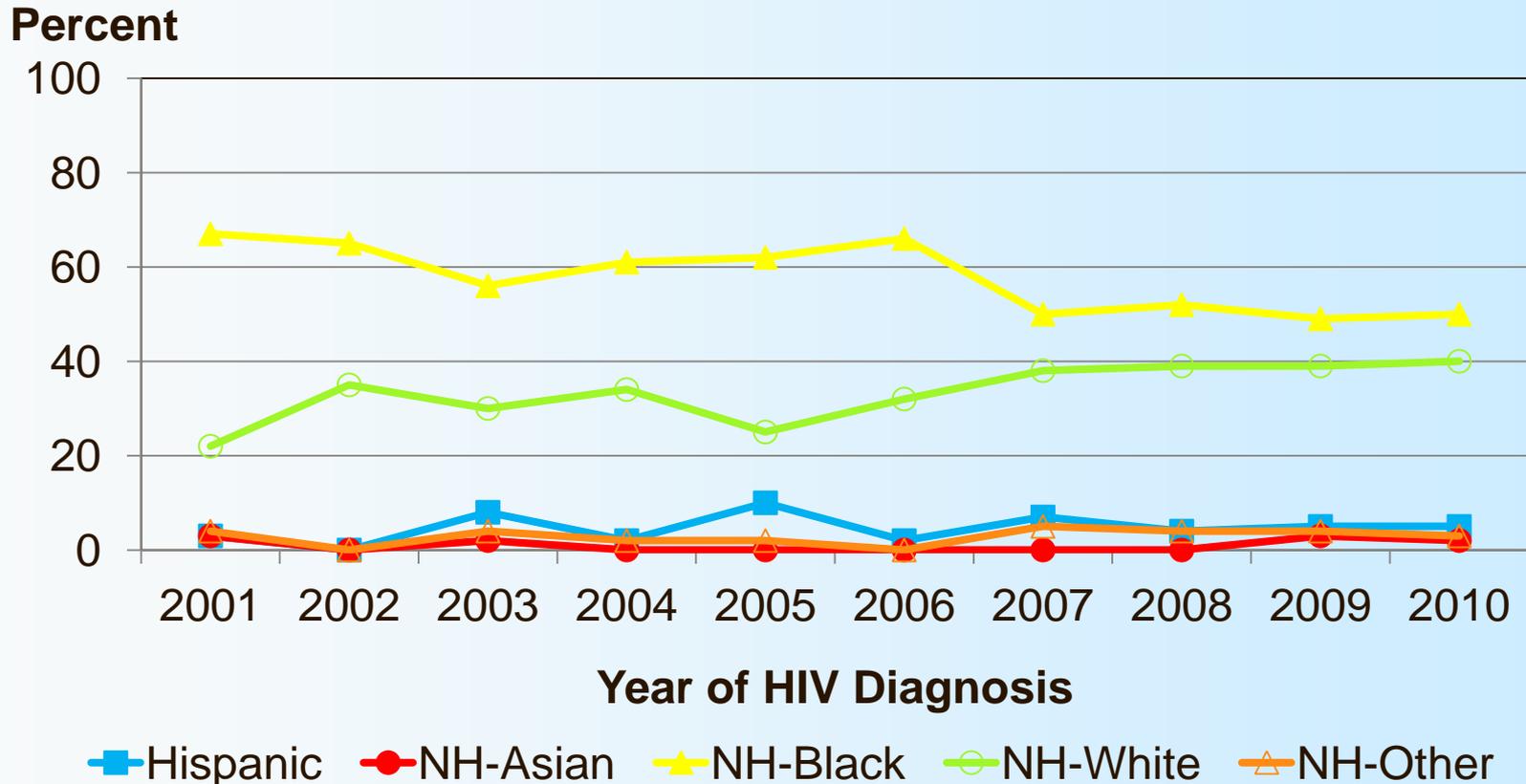
Adult/Adolescent Population and Living HIV Cases by Race/Ethnicity, Eastern Region



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Reported Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity, Eastern Region



Using data as reported through 12/31/2011



Exposure Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

MSM/IDU: Men who have Sex with Men AND Inject Drugs

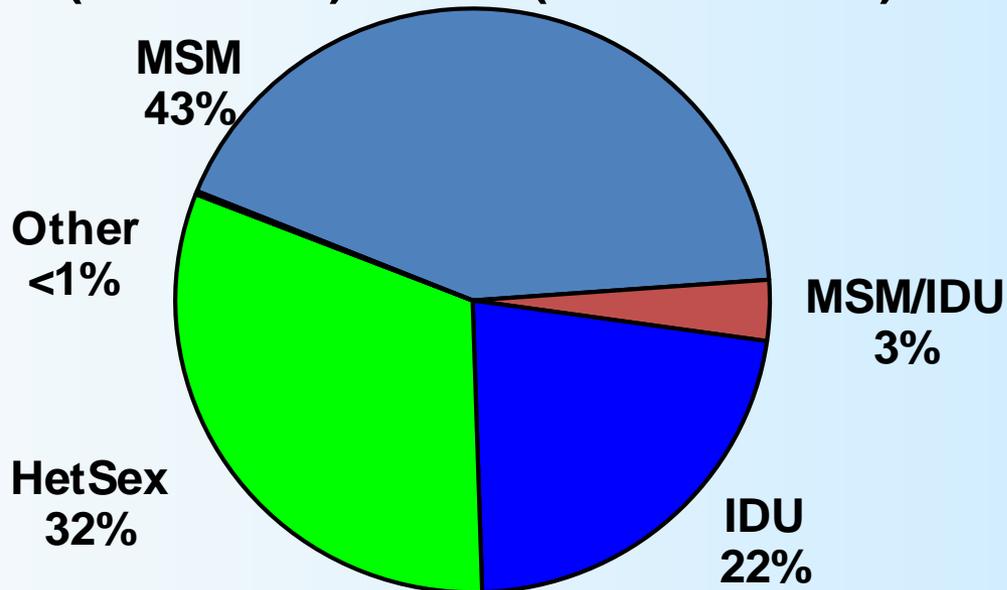
HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection



Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category, Eastern Region



N (with Risk) = 566 (76% of Total)



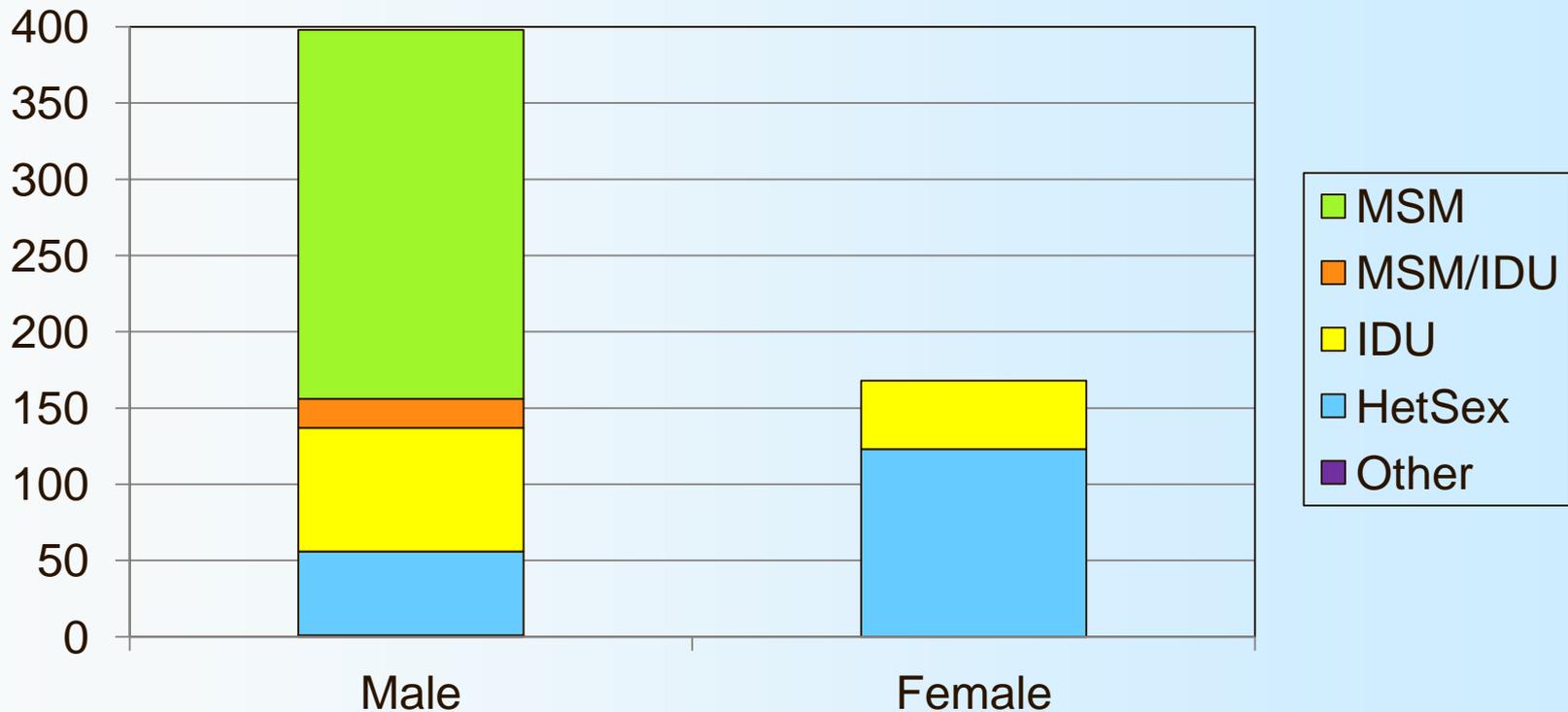
Using data as reported through 12/31/2011



Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category and Sex at Birth Eastern Region



Cases



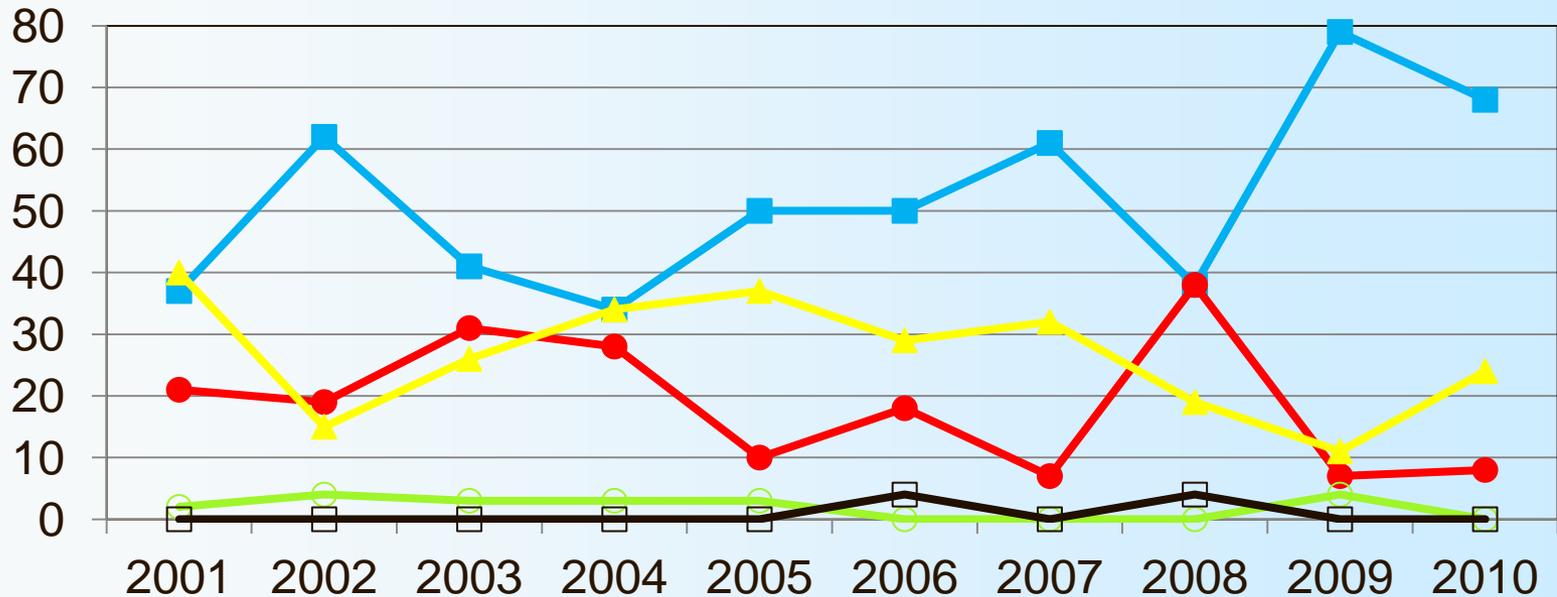
Using data as reported through 12/31/2011



Reported Adult/Adolescent HIV Diagnoses, Exposure Category Trends, Eastern Region



Percent



Year of HIV Diagnosis

■ MSM
 ● IDU
 ▲ HetSex
 ○ MSM/IDU
 □ Other

Using data as reported through 12/31/2011

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2010 Reported Adult/Adolescent HIV Diagnoses (N=38) Eastern Region



- Linkage to Care: 82% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 87% had a CD4 test within 12 months of HIV diagnosis, and the median value was 315 cells/microliter
- Late HIV Diagnosis: 37% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



2010 Reported Adult/Adolescent AIDS Diagnoses (N=30) Eastern Region



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 4.2 years
- Late HIV Diagnosis: 53% were diagnosed with AIDS within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



Regional Summary



HIV/AIDS in the Eastern Region



- There were 749 living adult/adolescent HIV cases at the end of 2010 and 38 reported adult/adolescent HIV diagnoses during 2010
- Wicomico and Cecil counties had the greatest share of living cases (29% and 15%)
- Rates of living cases were higher than the Eastern Region average in Dorchester and Wicomico and lower in Cecil and Queen Anne's.
- HIV was being diagnosed late (37% late, median CD4 315), contributing to many AIDS diagnoses (53% had late HIV diagnosis)



HIV/AIDS in the Eastern Region: Demographics



- Males were disproportionately affected (66% of cases vs. 49% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (57% vs. 16%), but the proportion non-Hispanic black was decreasing while the proportion non-Hispanic white was increasing
- Persons 30-59 years old were disproportionately affected (78% vs. 40%), but the proportions were decreasing among 30-49 year olds while increasing among all other age groups



HIV/AIDS in the Eastern Region: Transmission Risk



- Sexual transmission predominates (>75%)
 - Homosexual and heterosexual transmission among men
 - Heterosexual transmission among women
 - Male homosexual transmission proportion was increasing
 - Heterosexual transmission was decreasing
- Injection drug use is an important route of transmission (>22%), but the proportion IDU was decreasing



National HIV/AIDS Strategy



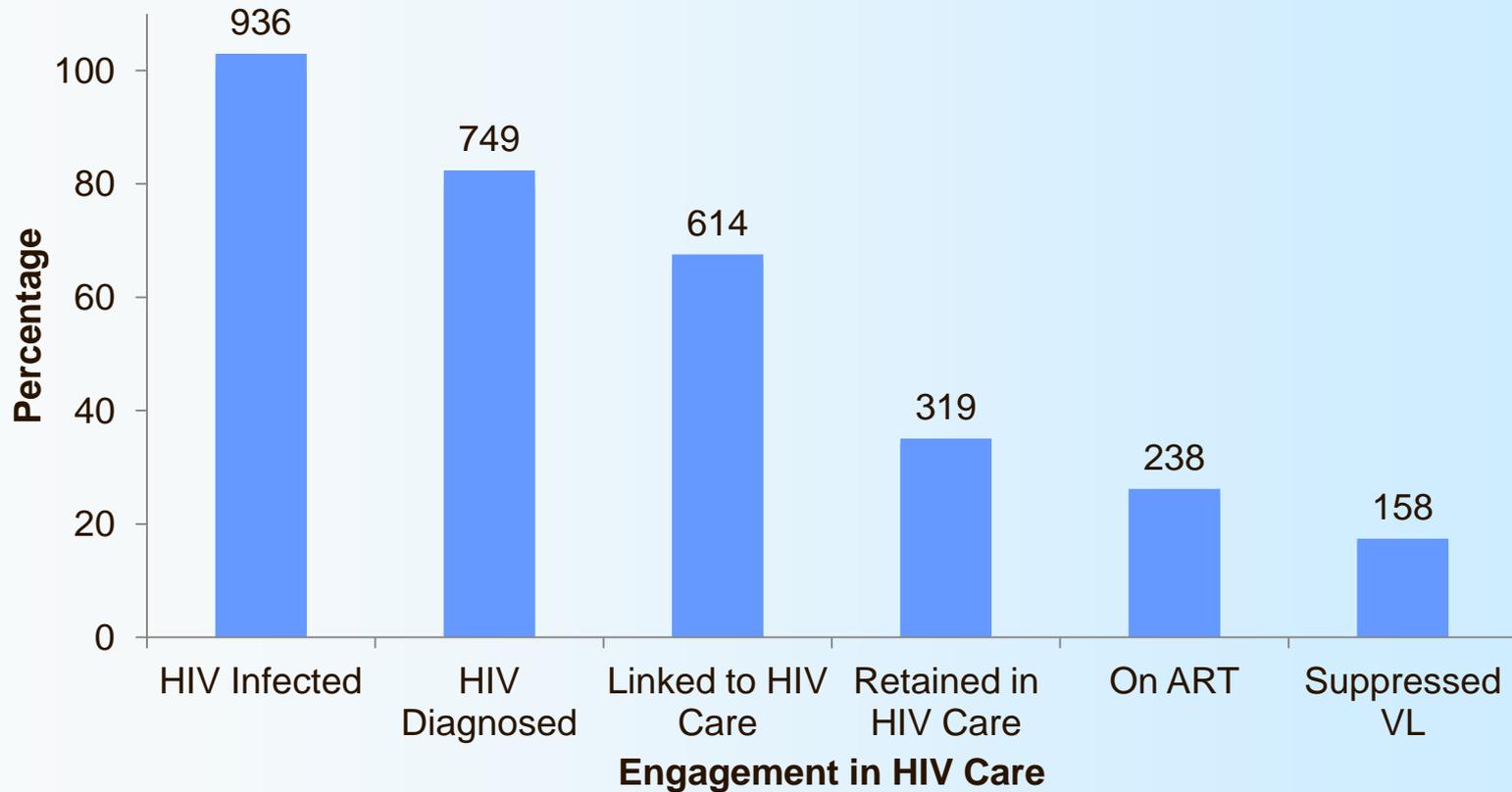
Goals:

- Reducing HIV incidence
- Increasing access to care and optimizing health outcomes
- Reducing HIV-related health disparities
- Achieving a more coordinated national response



Continuum of Care

Estimated number and percentage of HIV infected persons engaged in selected stages of the continuum of care, Eastern Maryland 2010





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<http://ideha.dhmh.maryland.gov/oideor/chse>